Name of Work: Improvements to roads and Drains at Chokkanahalli Surrounding area in ward no-05(Jakkkur) Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications						
	RCC Drain						
	Chokkanahalli Main Road						
	LHS(From Main Rd)						
	Ch:0.00m to 30.00m	1	30.00	1.10	1.10	36.30	
	Ch:30.00m to 60.00m	1	30.00	1.10	1.10	36.30	
	Ch:60.00m to 89.2m	1	29.20	1.10	1.10	35.33	
	Culvert Gap						
	Ch:89.2m to 102m	1	12.80	1.10	1.10	15.49	
	Ch:102m to 132m	1	30.00	1.10	1.10	36.30	
	Ch:132m to 162m	1	30.00	1.10	1.10	36.30	
	Ch:162m to 164.8m	1	2.80	1.10	1.10	3.39	
	Culvert Gap						
	Ch:164.8m to 194.8m	1	30.00	1.10	1.10	36.30	
	Ch:194.8m to 216.8m	1	22.00	1.10	1.10	26.62	
	Culvert Gap						
	Ch:216.8m to 246.8m	1	30.00	1.10	1.10	36.30	
	Ch:246.8m to 253.5m	1	6.70	1.10	1.10	8.11	
	Culvert Gap						
	Ch:253.5m to 268.8m	1	15.30	1.10	1.10	18.51	
	Culvert Gap						
	Ch:268.8m to 298.8m	1	30.00	1.10	1.10	36.30	
	Ch:298.8m to 328.8m	1	30.00	1.10	1.10	36.30	
	Ch:328.8m to 331.9m	1	3.10	1.10	1.10	3.75	
	Culvert Gap						
	Ch:331.9m to 346.9m	1	15.00	1.10	1.10	18.15	
	Culvert Gap						
	Ch:346.9m to 376.9m	1	30.00	1.10	1.10	36.30	
	Ch:376.9m to 406.9m	1	30.00	1.10	1.10	36.30	
	Ch:406.9m to 436.9m	1	30.00	1.10	1.10	36.30	
	Ch:436.9m to 455.2m	1	18.30	1.10	1.10	22.14	
	Ch:455.2m to 458.7m	1	3.50	0.60	0.40	0.84	
	Over Burden Earth	1	7.00	2.00	1.00	14.00	

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Asst. Engineer

Asst. Exec.

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	1	12.00	4.20	0.45	22.68	
	1	9.20	3.50	0.30	9.66	
	1	6.60	2.20	0.35	5.08	
	1	5.20	6.20	0.60	19.34	
	1	4.20	5.50	0.60	13.86	
RHS(From End)						
Ch:0.00m to 30.00m	1	30.00	1.10	1.10	36.30	
Ch:30.00m to 60.00m	1	30.00	1.10	1.10	36.30	
Ch:60.00m to 74.20m	1	14.20	1.10	1.10	17.18	
School Gap						
Ch:74.20m to 104.20m	1	30.00	1.10	1.10	36.30	
Ch:104.20m to 126.70m	1	22.50	1.10	1.10	27.23	
Culvert Gap						
Ch:126.70m to 137.70m	1	11.00	1.10	1.10	13.31	
Gap						
Ch:137.70m to 167.70m	1	30.00	1.10	1.10	36.30	
Ch:167.70m to 197.70m	1	30.00	1.10	1.10	36.30	
Ch:197.70m to 227.70m	1	30.00	1.10	1.10	36.30	
Ch:227.70m to 232.20m	1	4.50	1.10	1.10	5.45	
Culvert Gap						
Ch:232.20m to 244.70m	1	12.50	1.10	1.10	15.13	
Culvert Gap						
Ch:244.70m to 274.70m	1	30.00	1.10	1.10	36.30	
Ch:274.70m to 304.70m	1	30.00	1.10	1.10	36.30	
Ch:304.70m to 334.70m	1	30.00	1.10	1.10	36.30	
Ch:334.70m to 350.70m	1	16.00	1.10	1.10	19.36	
Ch:350.70m to 380.70m	1	30.00	1.10	1.10	36.30	
Ch:380.70m to 410.70m	1	30.00	1.10	1.10	36.30	
Ch:410.70m to 438.10m	1	27.40	1.10	1.10	33.15	
Ch:438.10m to 443.30m	1	5.20	1.10	1.10	6.29	
Ch:443.30m to 462.80m	1	19.50	1.10	1.10	23.60	
Over Burden Earth	1	7.00	2.00	1.00	14.00	
	1	9.20	3.50	0.30	9.66	
	1	6.60	2.20	0.35	5.08	
	1	5.20	6.20	0.60	19.34	
Matru Condiment Road						
LHS (from Chokkanahalli Rd)						
Ch:0.00m to 30.00m	1	30.00	1.10	1.10	36.30	
Ch:30.00m to 60.00m	1	30.00	1.10	1.10	36.30	
Ch:60.00m to 90.00m	1	30.00	1.10	1.10	36.30	
Ch:90.00m to 103.70m	1	13.70	1.10	1.10	16.58	

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Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Description of Item	No	Length	Breadth	Depth	Qty	Unit
Over Burden Earth	1	3.00	2.50	0.75	5.63	
	1	5.20	3.30	0.60	10.30	
RHS (From End)						
Ch:0.00m to 6.20m	1	6.20	0.60	0.50	1.86	
Ch:6.20m to 36.20m	1	30.00	1.10	1.10	36.30	
House Gap						
Ch:36.20m to 66.20m	1	30.00	1.10	1.10	36.30	
Ch:66.20m to 78.40m	1	12.20	1.10	1.10	14.76	
Ch:78.40m to 85.80m	1	7.40	1.10	1.10	8.95	
Ch:85.80m to 97.20m	1	11.40	1.10	1.10	13.79	
Over Burden Earth	1	3.00	2.50	0.75	5.63	
	1	8.20	3.50	0.60	17.22	
	1	7.60	4.20	0.55	17.56	
Chokkanahalli Layout Main Road						
LHS (From Main Road)						
Ch:0.00m to 30.00m	1	30.00	1.10	1.10	36.30	
Ch:30.00m to 60.00m	1	30.00	1.10	1.10	36.30	
Ch:60.00m to 90.00m	1	30.00	1.10	1.10	36.30	
Ch:90.00m to 120.00m	1	30.00	1.10	1.10	36.30	
Ch:120.00m to 144.00m	1	24.00	1.10	1.10	29.04	
Ch:144.00m to 153.30m	1	9.30	1.10	1.10	11.25	
Ch:153.30m to 183.30m	1	30.00	1.10	1.10	36.30	
Ch:183.30m to 185.30m	1	2.00	1.10	1.10	2.42	
Culvert Gap						
Gap (temple)						
Culvert Gap	1	2.00	1.10	1.10	2.42	
Ch:185.30m to 187.30m	1	30.00	1.10	1.10	36.30	
Ch:187.30m to 217.30m	1	30.00	1.10	1.10	36.30	
Ch:217.30m to 247.30m	1	30.00	1.10	1.10	6.66	
Ch:247.30m to 252.80m	1	5.50	1.10	1.10	19.60	
Gap						
Ch:252.80m to 269.00m	1	16.20	1.10	1.10	32.91	
House Gap						
Ch:269.00m to 296.20m	1	27.20	1.10	1.10	12.83	
School Gap						
Ch:296.20m to 306.80m	1	10.60	1.10	1.10	21.18	
House Gap						
Ch:306.80m to 324.30m	1	17.50	1.10	1.10	36.30	
Ch:324.30m to 354.30m	1	30.00	1.10	1.10	0.61	
Ch:354.30m to 354.80m	1	0.50	1.10	1.10	28.80	
Road Gap						
Ch:354.80m to 378.60m	1	23.80	1.10	1.10		

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Asst. Engineer

Asst. Executive Engineer, Project Division, Yelahanka Zone

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Description of Item	No	Length	Breadth	Depth	Qty	Unit
Ch 378.60m to 383.90m	1	5.30	1.00	1.00	5.30	
Ch 383.90m to 401.80m	1	17.90	1.00	1.00	17.90	
Ch 401.80m to 414.50m	1	12.70	1.00	1.00	12.70	
Ch 414.50m to 444.50m	1	30.00	1.00	1.00	30.00	
Ch 444.50m to 448.10m	1	3.60	1.00	1.00	3.60	
Culvert Gap						
Ch 448.10m to 476.10m	1	30.00	1.00	1.00	30.00	
Ch 476.10m to 481.70m	1	5.60	1.00	1.00	5.60	
Culvert Gap						
Ch 481.70m to 507.40m	1	25.70	1.00	1.00	25.70	
Over Burden Earth	1	3.00	2.80	0.75	6.30	
	1	9.20	3.50	0.30	9.66	
	1	6.60	2.20	0.35	5.08	
	1	5.20	3.40	0.60	10.60	
RHS (From End)						
Ch 0.00m to 30.00m	1	30.00	1.00	1.00	30.00	
Ch 30.00m to 60.00m	1	30.00	1.00	1.00	30.00	
Ch 60.00m to 86.00m	1	26.00	1.00	1.00	31.46	
Ch 86.00m to 90.10m	1	4.10	1.00	1.00	4.96	
Ch 90.10m to 101.40m	1	11.30	1.00	1.00	13.67	
House Gap						
Ch 101.40m to 107.80m	1	6.40	1.00	1.00	7.74	
Ch 107.80m to 116.60m	1	8.80	1.00	1.00	10.65	
Road Gap						
Ch 116.60m to 141.00m	1	24.40	1.00	1.00	29.52	
Tree Gap						
Ch 141.00m to 145.40m	1	4.40	1.10	1.10	5.32	
Road Gap						
Ch 145.40m to 153.20m	1	7.80	1.10	1.10	9.44	
Ch 153.20m to 156.20m	1	3.00	1.10	1.10	3.63	
Ch 156.20m to 175.40m	1	19.20	1.10	1.10	23.23	
Ch 175.40m to 205.40m	1	30.00	1.10	1.10	36.30	
Ch 205.40m to 225.40m	1	20.00	1.10	1.10	24.20	
House Gap						
Ch 225.40m to 255.40m	1	30.00	1.10	1.10	36.30	
Ch 255.40m to 283.00m	1	27.60	1.10	1.10	33.40	
2nd Cross Road						
LHS From Main Rd						
Ch 0.00m to 12.50m	1	12.50	1.00	1.10	13.75	
Ch 12.50m to 42.50m	1	30.00	1.00	1.10	33.00	
Ch 42.50m to 43.00m	1	0.50	1.00	1.10	0.55	
RHS From End						

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Asst. Engineer

Asst. Executive Engineer,
Project Division

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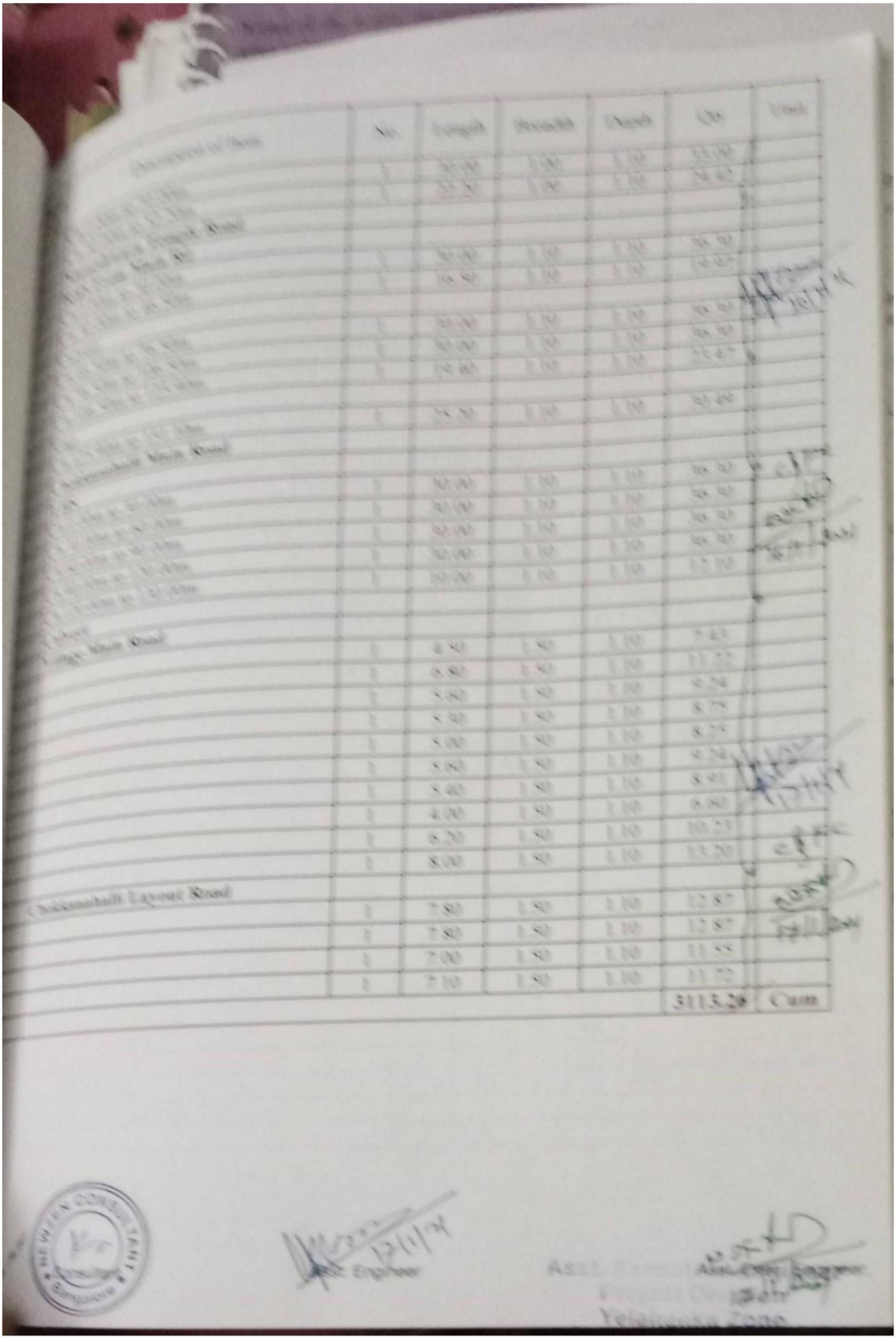

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Name of Work: Improvements to roads and Drains at Chokkanahalli Surrounding area in ward no-85(Jakkur) Byatarayanapura Sub Division

Measurement Recorded On:

Detailed Measurements

Description of Item	No	Length	Breadth	Depth	Qty	Unit
SOR Vol2/08-09. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, machine crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.						
RCC Drain						
On Bokkanahalli Main Road						
0.00m(From Main Rd)	1	30.00	1.10	0.15	4.95	
On 30.00m to 60.00m	1	30.00	1.10	0.15	4.95	
On 60.00m to 89.2m	1	29.20	1.10	0.15	4.82	
Culvert Cap						
On 89.2m to 102m	1	12.80	1.10	0.15	2.11	
On 102m to 132m	1	30.00	1.10	0.15	4.95	
On 132m to 162m	1	30.00	1.10	0.15	4.95	
On 162m to 164.8m	1	2.80	1.10	0.15	0.46	
Culvert Cap						
On 164.8m to 194.8m	1	30.00	1.10	0.15	4.95	
On 194.8m to 216.8m	1	22.00	1.10	0.15	3.63	
Culvert Cap						
On 216.8m to 246.8m	1	30.00	1.10	0.15	4.95	
On 246.8m to 253.5m	1	6.70	1.10	0.15	1.11	
Culvert Cap						
On 253.5m to 268.8m	1	15.30	1.10	0.15	2.52	
Culvert Cap						
On 268.8m to 298.8m	1	30.00	1.10	0.15	4.95	
On 298.8m to 328.8m	1	30.00	1.10	0.15	4.95	
On 328.8m to 331.9m	1	3.10	1.10	0.15	0.51	
Culvert Cap						
On 331.9m to 346.9m	1	15.00	1.10	0.15	2.48	
Culvert Cap						
On 346.9m to 376.9m	1	30.00	1.10	0.15	4.95	
On 376.9m to 406.9m	1	30.00	1.10	0.15	4.95	
On 406.9m to 436.9m	1	30.00	1.10	0.15	4.95	
On 436.9m to 455.2m	1	18.30	1.10	0.15	3.02	
On 455.2m to 458.7m(NE)						
0.00M(From End)						

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Asst. Engineer

Asst. Executive Engineer, Project Division

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Description of Item	No	Length	Breadth	Depth	(CM)	Unit
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
Ch 30.00m to 60.00m	1	30.00	1.10	0.15	4.95	
Ch 60.00m to 74.20m	1	14.20	1.10	0.15	2.34	
Culvert Gap						
Ch 74.20m to 104.20m	1	30.00	1.10	0.15	4.95	
Ch 104.20m to 126.74m	1	22.54	1.10	0.15	3.72	
Culvert Gap						
Ch 126.74m to 137.74m	1	11.00	1.10	0.15	1.82	
Culvert Gap						
Ch 137.74m to 167.74m	1	30.00	1.10	0.15	4.95	
Ch 167.74m to 197.74m	1	30.00	1.10	0.15	4.95	
Ch 197.74m to 227.74m	1	30.00	1.10	0.15	4.95	
Ch 227.74m to 232.24m	1	4.50	1.10	0.15	0.74	
Culvert Gap						
Ch 232.24m to 244.74m	1	12.50	1.10	0.15	2.06	
Culvert Gap						
Ch 244.74m to 274.74m	1	30.00	1.10	0.15	4.95	
Ch 274.74m to 304.74m	1	30.00	1.10	0.15	4.95	
Ch 304.74m to 334.74m	1	30.00	1.10	0.15	4.95	
Ch 334.74m to 350.74m	1	16.00	1.10	0.15	2.64	
Ch 350.74m to 380.74m	1	30.00	1.10	0.15	4.95	
Ch 380.74m to 410.74m	1	30.00	1.10	0.15	4.95	
Ch 410.74m to 438.14m	1	27.40	1.10	0.15	4.52	
Ch 438.14m to 443.34m	1	5.20	1.10	0.15	0.86	
Ch 443.34m to 462.84m	1	19.50	1.10	0.15	3.22	
Matru Condiment Road						
LHS (from Chokkanahalli Rd)						
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
Ch 30.00m to 60.00m	1	30.00	1.10	0.15	4.95	
Ch 60.00m to 90.00m	1	30.00	1.10	0.15	4.95	
Ch 90.00m to 103.70mm	1	13.70	1.10	0.15	2.26	
RHS (From End)						
Ch 0.00m to 6.20m(NE)	1	30.00	1.10	0.15	4.95	
Ch 6.2m to 36.20m						
House Gap	1	30.00	1.10	0.15	4.95	
Ch 36.20m to 66.20m	1	12.20	1.10	0.15	2.01	
Ch 66.20m to 78.40m	1	7.40	1.10	0.15	1.22	
Ch 78.40m to 85.80m	1	11.40	1.10	0.15	1.88	
Ch 85.80m to 97.20m						
Chokkanahalli Layout Main Road						
LHS (From Main Road)						
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	

NEWZEN CONSULTANT Bangalore

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Description of Item	No	Length	Breadth	Depth	Qty	Unit
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
Ch 30.00m to 60.00m	1	30.00	1.10	0.15	4.95	
Ch 60.00m to 90.00m	1	30.00	1.10	0.15	4.95	
Ch 90.00m to 114.00m	1	24.00	1.10	0.15	3.96	
Ch 114.00m to 123.30m	1	9.30	1.10	0.15	1.53	
Ch 123.30m to 153.30m	1	30.00	1.10	0.15	4.95	
Ch 153.30m to 183.30m	1	2.00	1.10	0.15	0.33	
Ch 183.30m to 185.30m						
Culvert Gap						
(Triangle)						
Culvert Gap	1	2.00	1.10	0.15	0.33	
Ch 185.30m to 187.30m	1	30.00	1.10	0.15	4.95	
Ch 187.30m to 217.30m	1	30.00	1.10	0.15	4.95	
Ch 217.30m to 247.30m	1	5.50	1.10	0.15	0.91	
Ch 247.30m to 252.80m						
Bridge	1	16.20	1.10	0.15	2.67	
Ch 252.80m to 269.00m						
Bridge Gap	1	27.20	1.10	0.15	4.49	
Ch 269.00m to 296.20m						
School Gap	1	10.60	1.10	0.15	1.75	
Ch 296.20m to 306.80m						
Bridge Gap	1	17.50	1.10	0.15	2.89	
Ch 306.80m to 324.30m	1	30.00	1.10	0.15	4.95	
Ch 324.30m to 354.30m	1	0.50	1.10	0.15	0.08	
Ch 354.30m to 354.80m						
Road Gap	1	23.80	1.10	0.15	3.93	
Ch 354.80m to 378.60m	1	5.30	1.10	0.15	0.87	
Ch 378.60m to 383.90m	1	17.90	1.10	0.15	2.95	
Ch 383.90m to 401.80m	1	12.70	1.10	0.15	2.10	
Ch 401.80m to 414.50m	1	30.00	1.10	0.15	4.95	
Ch 414.50m to 444.50m	1	1.60	1.10	0.15	0.26	
Ch 444.50m to 446.10m						
Culvert Gap	1	30.00	1.10	0.15	4.95	
Ch 446.10m to 476.10m	1	5.60	1.10	0.15	0.92	
Ch 476.10m to 481.70m						
Culvert Gap	1	25.70	1.10	0.15	4.24	
Ch 481.70m to 507.40m						
RHS (From End)	1	30.00	1.10	0.15	4.95	
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
Ch 30.00m to 60.00m	1	26.00	1.10	0.15	4.29	
Ch 60.00m to 86.00m	1	4.10	1.10	0.15	0.68	
Ch 86.00m to 90.10m	1	11.30	1.10	0.15	1.86	
Ch 90.10m to 101.40m						

Contractor

NEWZEN CONSULTANT Consultant Bangalore

Asst. Engineer

Asst. Exec. Engineer, Project Division

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Description of item	No	Length	Breadth	Depth	Qty	Unit
Ch 107.80m to Ch 118.00m	1	6.40	1.10	0.15	1.06	
Ch 118.00m to Ch 141.00m	1	8.80	1.10	0.15	1.45	
Ch 141.00m to Ch 165.40m	1	24.40	1.10	0.15	4.03	
Ch 165.40m to Ch 173.80m	1	4.40	1.10	0.15	0.73	
Ch 173.80m to Ch 193.60m	1	7.80	1.10	0.15	1.29	
Ch 193.60m to Ch 198.20m	1	3.00	1.10	0.15	0.50	
Ch 198.20m to Ch 218.40m	1	19.20	1.10	0.15	3.17	
Ch 218.40m to Ch 248.40m	1	30.00	1.10	0.15	4.95	
Ch 248.40m to Ch 278.40m	1	20.00	1.10	0.15	3.30	
Ch 278.40m to Ch 308.40m	1	30.00	1.10	0.15	4.95	
Ch 308.40m to Ch 335.40m	1	27.60	1.10	0.15	4.55	
Ch 335.40m to Ch 383.00m						
Cross Road						
RHS From Main Rd						
Ch 0.00m to 12.50m	1	12.50	1.00	0.15	1.88	
Ch 12.50m to 42.50m	1	30.00	1.00	0.15	4.50	
Ch 42.50m to 43.00m	1	0.50	1.00	0.15	0.08	
LHS From End						
Ch 0.00m to 30.00m	1	30.00	1.00	0.15	4.50	
Ch 30.00m to 52.20m	1	22.20	1.00	0.15	3.33	
Manjeshwara Temple Road						
RHS From Main Rd						
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
Ch 30.00m to 46.50m	1	16.50	1.10	0.15	2.72	
Culvert						
Ch 46.50m to 76.50m	1	30.00	1.10	0.15	4.95	
Ch 76.50m to 106.50m	1	30.00	1.10	0.15	4.95	
Ch 106.50m to 125.90m	1	19.40	1.10	0.15	3.20	
Gap						
Ch 125.90m to 151.10m	1	25.20	1.10	0.15	4.16	
Chokkanahalli Main Road						
LHS						
Ch 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
Ch 30.00m to 60.00m	1	30.00	1.10	0.15	4.95	
Ch 60.00m to 90.00m	1	30.00	1.10	0.15	4.95	
Ch 90.00m to 120.00m	1	30.00	1.10	0.15	4.95	
Ch 120.00m to 130.00m	1	10.00	1.10	0.15	1.65	
Culvert						

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Asst. Engineer

Asst. Executive Engineer
Project Asst. Exec. Engineer.
Yelahanka Zone
BBMP, Bangalore - 92

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Description of Item	No	Length	Breadth	Depth	Qty	Unit
Kolage Main Road						
	1	4.50	1.50	0.15	1.01	
	1	6.80	1.50	0.15	1.53	
	1	5.60	1.50	0.15	1.26	
	1	5.10	1.50	0.15	1.16	
	1	5.00	1.50	0.15	1.13	
	1	5.60	1.50	0.15	1.26	
	1	5.40	1.50	0.15	1.22	
	1	4.00	1.50	0.15	0.90	
	1	6.20	1.50	0.15	1.40	
	1	8.00	1.50	0.15	1.80	
Chokkanahalli Layout Road						
	1	7.80	1.50	0.15	1.76	
	1	7.80	1.50	0.15	1.76	
	1	7.00	1.50	0.15	1.58	
	1	7.10	1.50	0.15	1.60	
				Total Qty	**394.05**	**Cum**

NEWZEN CONSULTANT Consulting Bangalore

Asst. Engineer

Asst. Executive Engineer,
Project Division
Yelahanka Zone

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Name of Work: Improvements to roads and Drains at Chokkanahalli Surrounding area in ward no-05(Jakkkur) Byatarayanapura Sub Division

Detailed Measurements

Recorded On:

Description of Item	No	Length	Breadth	Depth	Qty	Unit
4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, booking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (lugs, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification.						
R.C.C Drain						
Chokkanahalli Main Road						
LHS(From Main Rd)						
Total Drain Length=455.20m						
Main Bar 10mm dia @125mm c/c						
@0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
@0.61kg/m						
No of U Bars=3642	3642	2.00		0.61	4443.24	
No of distrubution Bars=15	15	455.20		0.61	4165.08	
RHS(From End)						
Total Drain Length=462.84						
Main Bar 10mm dia @125mm c/c						
@0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
@0.61kg/m						
No of U Bars=3705	3705	2.00		0.61	4520.10	
No of distrubution Bars=15	15	462.84		0.61	4234.99	
Matru Condiment Road						
LHS						
Total Drain Length=103.70m						
Main Bar 10mm dia @125mm c/c						
@0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
@0.61kg/m						
No of U Bars=2750	830	2.00		0.61	1012.60	
No of distrubution Bars=15	15	103.70		0.61	948.86	
RHS						
Total Drain Length=91.00m						

CHECKED 15/2/2024

15/2/24

NEWZEN CONSULTANT Bangalore

Asst. Engineer

Asst. Exec. Engineer

Asst. Exec. Engineer
Project Division
Yelahanka Zone

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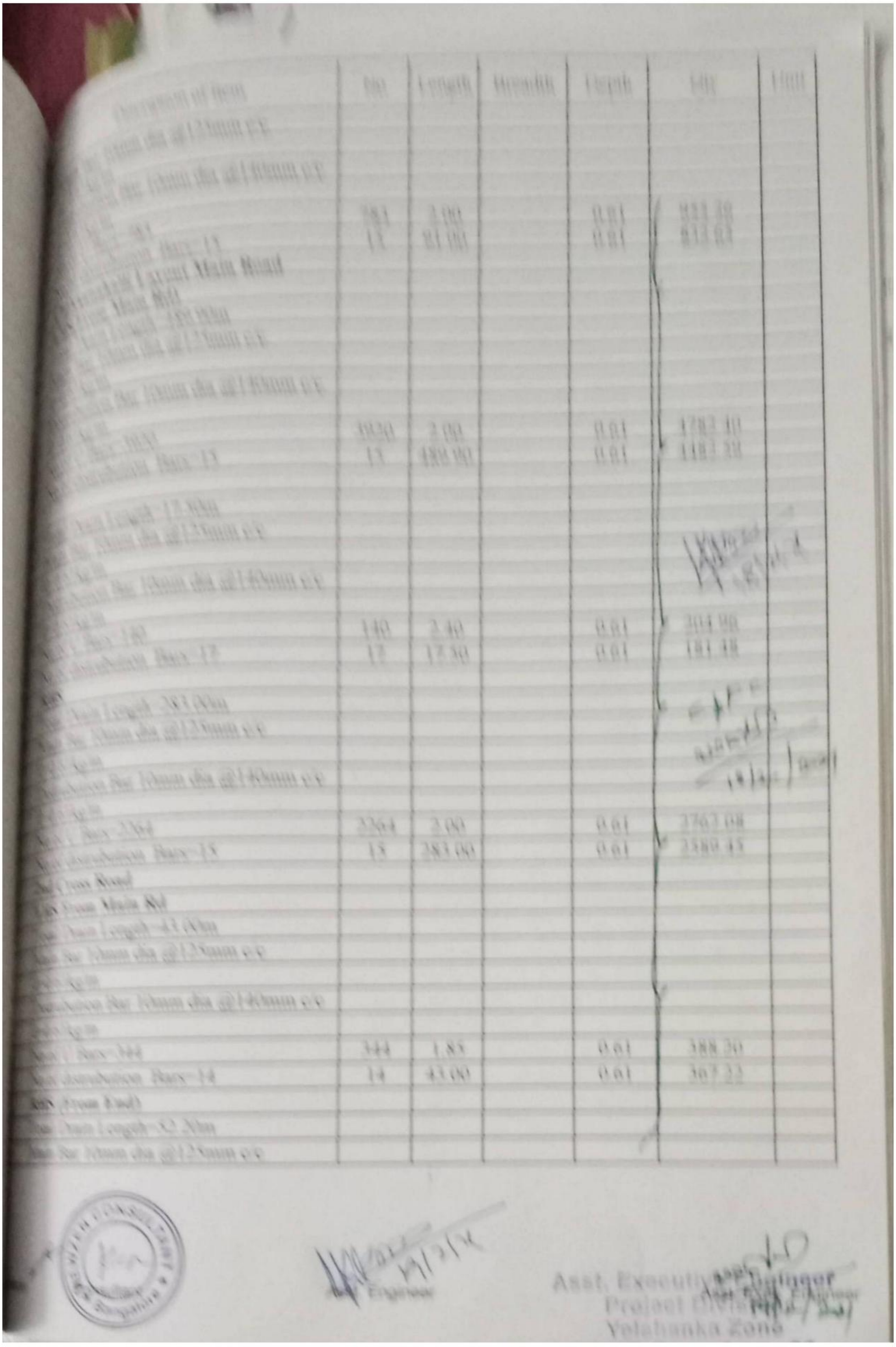

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
d-0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
d-0.61kg/m						
No of U Bars=418	418	1.85		0.61	471.71	
No of distrubution Bars=14	14	52.20		0.61	445.79	
Maneshwara Temple Road						
RHS From Main Rd						
Total Drain Length=151.10m						
Main Bar 10mm dia @125mm c/c						
d-0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
d-0.61kg/m						
No of U Bars=1209	1209	2.00		0.61	1474.98	
No of distrubution Bars=14	14	151.10		0.61	1290.39	
Chokkanahalli Main Road						
LHS						
Total Drain Length=130.00m						
Main Bar 10mm dia @125mm c/c						
d-0.61kg/m						
Distrubution Bar 10mm dia @140mm c/c						
d-0.61kg/m						
No of U Bars=1040	1040	2.00		0.61	1268.80	
No of distrubution Bars=14	14	130.00		0.61	1110.20	
Culvert						
Total Drain Length=86.10m						
Main Bar 12mm dia @160mm c/c						
d-0.61kg/m						
Distrubution Bar 10mm dia @200mm c/c						
d-0.61kg/m						
No of U Bars=1230	1230	2.30		0.89	2517.81	
No of distrubution Bars=21	23	86.10		0.61	1207.98	
					46658.81	
				Present Qty	**46.66**	**Tn**

C/R/C

22/2/2024

22/2/24

22/2/24

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Name of work: **Improvements to roads and Drains at Chokkanahalli Surrounding area in ward no-05(Jakkkur) Ryatarayanapura Sub Division**

Measurement Recorded On:

Detailed Measurements

Description of Item	No	Length	Breadth	Depth	Qty	Unit
Providing and laying plain reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete including cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm						
C/C Drain Raft						
Chokkanahalli Main Road						
(From Main Rd)						
0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
30.00m to 60.00m	1	30.00	0.90	0.15	4.05	
60.00m to 89.2m	1	29.20	0.90	0.15	3.94	
Short Gap						
89.2m to 102m	1	12.80	0.90	0.15	1.73	
102m to 132m	1	30.00	0.90	0.15	4.05	
132m to 162m	1	30.00	0.90	0.15	4.05	
162m to 164.8m	1	2.80	0.90	0.15	0.38	
Short Gap						
164.8m to 194.8m	1	30.00	0.90	0.15	4.05	
194.8m to 216.8m	1	22.00	0.90	0.15	2.97	
Short Gap						
216.8m to 246.8m	1	30.00	0.90	0.15	4.05	
246.8m to 253.5m	1	6.70	0.90	0.15	0.90	
Short Gap						
253.5m to 268.8m	1	15.30	0.90	0.15	2.07	
Short Gap						
268.8m to 298.8m	1	30.00	0.90	0.15	4.05	
298.8m to 328.8m	1	30.00	0.90	0.15	4.05	
328.8m to 331.9m	1	3.10	0.90	0.15	0.42	
Short Gap						
331.9m to 346.9m	1	15.00	0.90	0.15	2.03	
Short Gap						
346.9m to 376.9m	1	30.00	0.90	0.15	4.05	
376.9m to 406.9m	1	30.00	0.90	0.15	4.05	
406.9m to 436.9m	1	30.00	0.90	0.15	4.05	
436.9m to 455.2m	1	18.30	0.90	0.15	2.47	

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Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:458.2m to 458.7m(NE)						
RHS(From End)						
Ch:0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
Ch:30.00m to 60.00m	1	30.00	0.90	0.15	4.05	
Ch:60.00m to 74.20m	1	14.20	0.90	0.15	1.92	
Culvert Gap						
Ch:74.20m to 104.20m	1	30.00	0.90	0.15	4.05	
Ch:104.20m to 126.74m	1	22.54	0.90	0.15	3.04	
Culvert Gap						
Ch:126.74m to 137.74m	1	11.00	0.90	0.15	1.49	
Gap						
Ch:137.74m to 167.74m	1	30.00	0.90	0.15	4.05	
Ch:167.74m to 197.74m	1	30.00	0.90	0.15	4.05	
Ch:197.74m to 227.74m	1	30.00	0.90	0.15	4.05	
Ch:227.74m to 232.24m	1	4.50	0.90	0.15	0.61	
Culvert Gap						
Ch:232.24m to 244.74m	1	12.50	0.90	0.15	1.69	
Culvert Gap						
Ch:244.74m to 274.74m	1	30.00	0.90	0.15	4.05	
Ch:274.74m to 304.74m	1	30.00	0.90	0.15	4.05	
Ch:304.74m to 334.74m	1	30.00	0.90	0.15	4.05	
Ch:334.74m to 350.74m	1	16.00	0.90	0.15	2.16	
Ch:350.74m to 380.74m	1	30.00	0.90	0.15	4.05	
Ch:380.74m to 410.74m	1	30.00	0.90	0.15	4.05	
Ch:410.74m to 438.14m	1	27.40	0.90	0.15	3.70	
Ch:438.14m to 443.34m	1	5.20	0.90	0.15	0.70	
Ch:443.34m to 462.84m	1	19.50	0.90	0.15	2.63	
Matru Condiment Road						
LHS (from Chokkanahalli Rd)						
Ch:0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
Ch:30.00m to 60.00m	1	30.00	0.90	0.15	4.05	
Ch:60.00m to 90.00m	1	30.00	0.90	0.15	4.05	
Ch:90.00m to 103.70mm	1	13.70	0.90	0.15	1.85	
RHS (From End)						
Ch:0.00m to 6.20m(NE)						
Ch:6.2m to 36.20m	1	30.00	0.90	0.15	4.05	
House Gap						
Ch:36.20m to 66.20m	1	30.00	0.90	0.15	4.05	
Ch:66.20m to 78.40m	1	12.20	0.90	0.15	1.65	
Ch:78.40m to 85.80m	1	7.40	0.90	0.15	1.00	
Ch:85.80m to 97.20m	1	11.40	0.90	0.15	1.54	
Chokkanahalli Layout Main Road						

NEWZEN CONSULTANT Consultant Bangalore

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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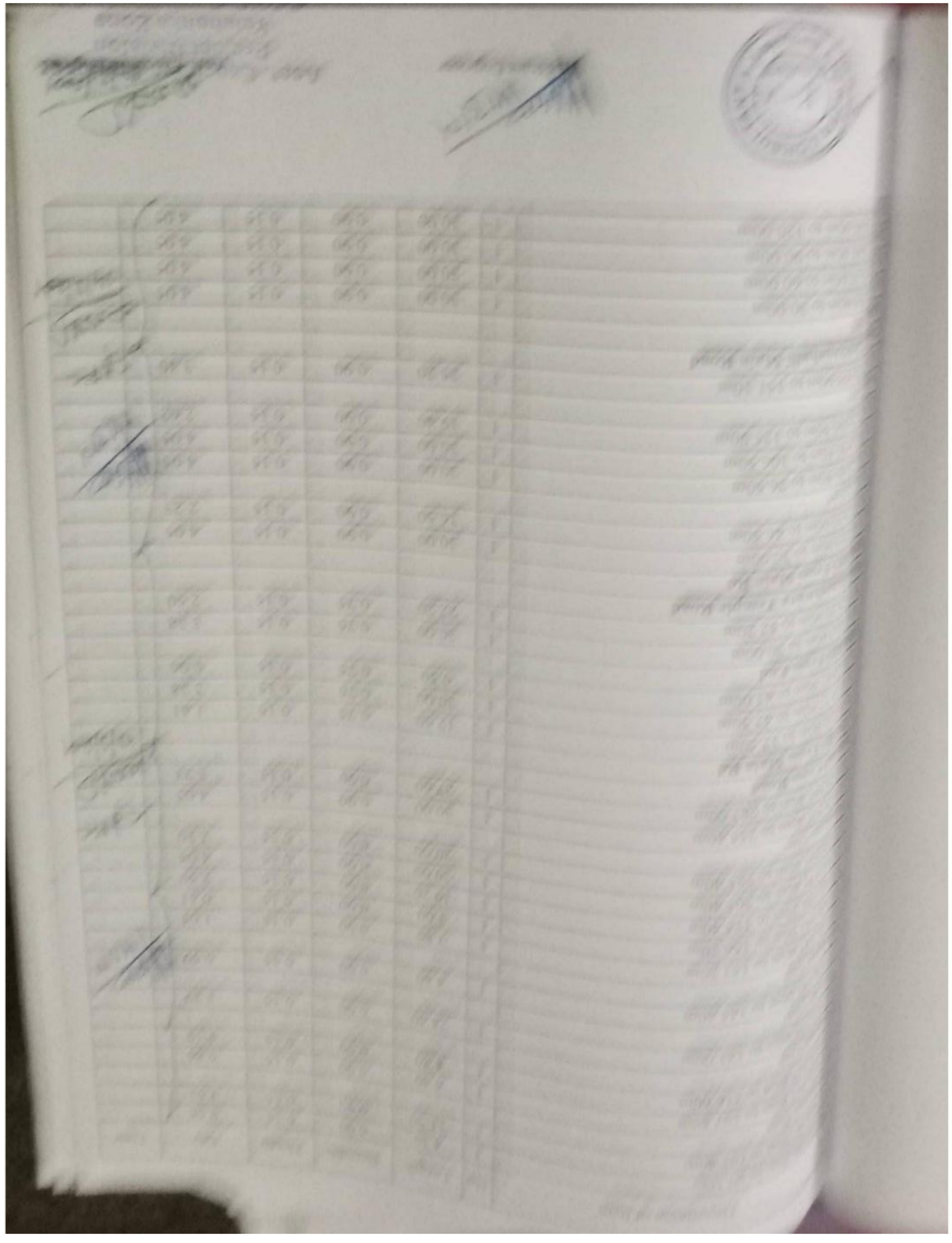
Description of Item	No	Length	Breadth	Depth	Qty	Unit
Main Road)						
0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
30.00m to 60.00m	1	30.00	0.90	0.15	4.05	
60.00m to 90.00m	1	30.00	0.90	0.15	4.05	
90.00m to 120.00m	1	30.00	0.90	0.15	4.05	
120.00m to 144.00m	1	24.00	0.90	0.15	3.24	
144.00m to 144.80m	1	0.80	0.90	0.15	0.11	
144.80m to 174.80m	1	30.00	0.90	0.15	4.05	
174.80m to 177.80m	1	3.00	0.90	0.15	0.41	
Culvert Gap						
177.80m to 207.80m	1	30.00	0.90	0.15	4.05	
207.80m to 211.70m	1	3.90	0.90	0.15	0.53	
211.70m to 241.70m	1	30.00	0.90	0.15	4.05	
241.70m to 271.80m	1	30.00	0.90	0.15	4.05	
271.80m to 275.30m	1	3.50	0.90	0.15	0.47	
Culvert Gap						
275.30m to 305.30m	1	30.00	0.90	0.15	4.05	
305.30m to 307.80m	1	2.50	0.90	0.15	0.34	
Culvert Gap						
307.80m to 338.80m	1	31.00	0.90	0.15	4.19	
Culvert Gap						
338.80m to 368.30m	1	29.50	0.90	0.15	3.98	
Culvert Gap						
368.30m to 384.30m	1	16.00	0.90	0.15	2.16	
384.30m to 384.80m	1	0.50	0.90	0.15	0.07	
Culvert Gap						
384.80m to 415.80m	1	31.00	0.90	0.15	4.19	
Culvert Gap						
415.80m to 445.80m	1	30.00	0.90	0.15	4.05	
Culvert Gap						
445.80m to 476.80m	1	31.00	0.90	0.15	4.19	
Culvert Gap						
476.80m to 507.40m	1	30.60	0.90	0.15	4.13	
507.40m to 537.40m	1	30.00	0.90	0.15	4.05	
537.40m to 567.40m	1	30.00	0.90	0.15	4.05	
567.40m to 597.40m	1	30.00	0.90	0.15	4.05	



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Description of Item	No	Length	Breadth	Depth	Qty	Unit
0.00m to 130.00m						
Drain Wall	1	30.00	0.90	0.15	1.35	
Anandhalli Main Road						
(From Main Rd)						
0.00m to 30.00m						
30.00m to 60.00m	2	30.00	0.15	0.50	4.50	
60.00m to 89.2m	2	30.00	0.15	0.50	4.50	
Invert Gap	2	29.20	0.15	0.50	4.38	
89.2m to 102m						
102m to 132m	2	12.80	0.15	0.80	3.07	
132m to 162m	2	30.00	0.15	0.60	5.40	
162m to 164.8m	2	30.00	0.15	0.60	5.40	
Invert Gap	2	2.80	0.15	0.60	0.50	
164.8m to 194.8m						
194.8m to 216.8m	2	30.00	0.15	0.60	5.40	
Invert Gap	2	22.00	0.15	0.60	3.96	
216.8m to 246.8m						
246.8m to 253.5m	2	30.00	0.15	0.60	5.40	
Invert Gap	2	6.70	0.15	0.60	1.21	
253.5m to 268.8m						
Invert Gap	2	15.30	0.15	0.60	2.75	
268.8m to 298.8m						
298.8m to 328.8m	2	30.00	0.15	0.60	5.40	
328.8m to 331.9m	2	30.00	0.15	0.60	5.40	
Invert Gap	2	3.10	0.15	0.60	0.56	
331.9m to 346.9m						
Invert Gap	2	15.00	0.15	0.60	2.70	
346.9m to 376.9m						
376.9m to 406.9m	2	30.00	0.15	0.60	5.40	
406.9m to 436.9m	2	30.00	0.15	0.60	5.40	
436.9m to 455.2m	2	30.00	0.15	0.60	5.40	
455.2m to 458.7m(NE)	2	18.30	0.15	0.60	3.29	
(From End)						
0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
30.00m to 60.00m	2	30.00	0.15	0.60	5.40	
60.00m to 74.20m	2	14.20	0.15	0.60	2.56	
Invert Gap						
74.20m to 104.20m	2	30.00	0.15	0.60	5.40	
104.20m to 126.74m	2	22.54	0.15	0.60	4.06	
Invert Gap						
126.74m to 137.74m	2	11.00	0.15	0.60	1.98	

19/3/21

19/3/21

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Description of Item	No	Length	Breadth	Depth	Qty	Unit
to 167.74m	2	30.00	0.15	0.60	5.40	
to 197.74m	2	30.00	0.15	0.60	5.40	
to 227.74m	2	30.00	0.15	0.60	5.40	
to 232.24m	2	4.50	0.15	0.60	0.81	
to 244.74m	2	12.50	0.15	0.60	2.25	
to 274.74m	2	30.00	0.15	0.60	5.40	
to 304.74m	2	30.00	0.15	0.60	5.40	
to 334.74m	2	30.00	0.15	0.60	5.40	
to 350.74m	2	16.00	0.15	0.60	2.88	
to 380.74m	2	30.00	0.15	0.60	5.40	
to 410.74m	2	30.00	0.15	0.60	5.40	
to 438.14m	2	27.40	0.15	0.60	4.93	
to 443.34m	2	5.20	0.15	0.60	0.94	
to 462.84m	2	19.50	0.15	0.60	3.51	
dment Road						
Chokkanahalli Rd)						
to 30.00m	2	30.00	0.15	0.60	5.40	
to 60.00m	2	30.00	0.15	0.60	5.40	
to 90.00m	2	30.00	0.15	0.60	5.40	
to 103.70mm	2	13.70	0.15	0.60	2.47	
n End)						
to 6.20m(NE)						
to 36.20m	2	30.00	0.15	0.60	5.40	
to 66.20m	2	30.00	0.15	0.60	5.40	
to 78.40m	2	12.20	0.15	0.60	2.20	
to 85.80m	2	7.40	0.15	0.60	1.33	
to 97.20m	2	11.40	0.15	0.60	2.05	
halli Layout Main Road						
n Main Road)						
to 30.00m	2	30.00	0.15	0.60	5.40	
to 60.00m	2	30.00	0.15	0.60	5.40	
to 90.00m	2	30.00	0.15	0.60	5.40	
to 120.00m	2	30.00	0.15	0.60	5.40	
to 144.00m	2	24.00	0.15	0.60	4.32	
to 153.30m	2	9.30	0.15	0.60	1.67	
to 183.30m	2	30.00	0.15	0.60	5.40	
to 185.30m	2	2.00	0.15	0.60	0.36	
ap						
ple)						

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Culvert Gap						
Ch:185.30m to 187.30m	2	2.00	0.15	0.60	0.36	
Ch:187.30m to 217.30m	2	30.00	0.15	0.60	5.40	
Ch:217.30m to 247.30m	2	30.00	0.15	0.60	5.40	
Ch:247.30m to 252.80m	2	5.50	0.15	0.60	0.99	
Gap						
Ch:252.80m to 269.00m	2	16.20	0.15	0.60	2.92	
House Gap						
Ch:269.00m to 296.20m	2	27.20	0.15	0.60	4.90	
School Gap						
Ch:296.20m to 306.80m	2	10.60	0.15	0.60	1.91	
House Gap						
Ch:306.80m to 324.30m	2	17.50	0.15	0.90	4.73	
Ch:324.30m to 354.30m	2	30.00	0.15	0.60	5.40	
Ch:354.30m to 354.80m	2	0.50	0.15	0.60	0.09	
Road Gap						
Ch:354.80m to 378.60m	2	23.80	0.15	0.60	4.28	
Ch:378.60m to 383.90m	2	5.30	0.15	0.45	0.72	
Ch:383.90m to 401.80m	2	17.90	0.15	0.60	3.22	
Ch:401.80m to 414.50m	2	12.70	0.15	0.60	2.29	
Ch:414.50m to 444.50m	2	30.00	0.15	0.60	5.40	
Ch:444.50m to 446.10m	2	1.60	0.15	0.60	0.29	
Culvert Gap						
Ch:446.10m to 476.10m	2	30.00	0.15	0.60	5.40	
Ch:476.10m to 481.70m	2	5.60	0.15	0.60	1.01	
Culvert Gap						
Ch:481.70m to 507.40m	2	25.70	0.15	0.60	4.63	
RHS (From End)						
Ch:0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch:30.00m to 60.00m	2	30.00	0.15	0.60	5.40	
Ch:60.00m to 86.00m	2	26.00	0.15	0.60	4.68	
Ch:86.00m to 90.10m	2	4.10	0.15	0.60	0.74	
Ch:90.10m to 101.40m	2	11.30	0.15	0.60	2.03	
House Gap						
Ch:101.40m to 107.80m	2	6.40	0.15	0.60	1.15	
Ch:107.80m to 116.60m	2	8.80	0.15	0.60	1.58	
Road Gap						
Ch:116.60m to 141.00m	2	24.40	0.15	0.60	4.39	
Tree Gap						
Ch:141.00m to 145.40m	2	4.40	0.15	0.60	0.79	
Road Gap						
Ch:145.40m to 153.20m	2	7.80	0.15	0.60	1.40	

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Assistant Engineer

Asst. Executive Engineer

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Description of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:153.20m to 156.20m	2	3.00	0.15	0.60	0.54	
Ch:156.20m to 175.40m	2	19.20	0.15	0.60	3.46	
Ch:175.40m to 205.40m	2	30.00	0.15	0.60	5.40	
Ch:205.40m to 225.40m	2	20.00	0.15	0.60	3.60	
House Gap						
Ch:225.40m to 255.40m	2	30.00	0.15	0.60	5.40	
Ch:255.40m to 283.00m	2	27.60	0.15	0.60	4.97	
2nd Cross Road						
LHS From Main Rd						
Ch:0.00m to 12.50m	2	12.50	0.15	0.60	2.25	
Ch:12.50m to 42.50m	2	30.00	0.15	0.60	5.40	
Ch:42.50m to 43.00m	2	0.50	0.15	0.60	0.09	
RHS From End						
Ch:0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch:30.00m to 52.20m	2	22.20	0.15	0.60	4.00	
Muneshwara Temple Road						
RHS From Main Rd						
Ch:0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch:30.00m to 46.50m	2	16.50	0.15	0.60	2.97	
Culvert						
Ch:46.50m to 76.50m	2	30.00	0.15	0.60	5.40	
Ch:76.50m to 106.50m	2	30.00	0.15	0.60	5.40	
Ch:106.50m to 125.90m	2	19.40	0.15	0.60	3.49	
Gap						
Ch:125.90m to 151.10m	2	25.20	0.15	0.60	4.54	
Chokkanahalli Main Road						
LHS						
Ch:0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch:30.00m to 60.00m	2	30.00	0.15	0.60	5.40	
Ch:60.00m to 90.00m	2	30.00	0.15	0.60	5.40	
Ch:90.00m to 120.00m	2	30.00	0.15	0.60	5.40	
Ch:120.00m to 130.00m	2	10.00	0.15	0.60	1.80	
Culvert Raft						
Village Main Road						
	1	4.50	1.20	0.23	1.24	
	1	6.80	1.20	0.23	1.88	
	1	5.60	1.20	0.23	1.55	
	1	5.30	1.20	0.23	1.46	
	1	5.00	1.20	0.23	1.38	
	1	5.60	1.20	0.23	1.55	
	1	5.40	1.20	0.23	1.49	
	1	4.00	1.20	0.23	1.10	

NEWZEN CONSULTANT Consultant Bangalore

Assistant Engineer

Asst. Executive Engineer, Project Division

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m g	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	6.20	1.20	0.23	1.71	
	Chokkanahalli Layout Road	1	8.00	1.20	0.23	2.21	
		1	7.80	1.20	0.23	2.15	
		1	7.80	1.20	0.23	2.15	
		1	7.00	1.20	0.23	1.93	
	Culvert Wall	1	7.10	1.20	0.23	1.96	
	Village Main Road						
		2	4.50	0.23	0.45	0.93	
		2	6.80	0.23	0.50	1.56	
		2	5.60	0.23	0.35	0.90	
		2	5.30	0.23	0.40	0.98	
		2	5.00	0.23	0.60	1.38	
		2	5.60	0.23	0.45	1.16	
		2	5.40	0.23	0.35	0.87	
		2	4.00	0.23	0.45	0.83	
		2	6.20	0.23	0.35	1.00	
	Chokkanahalli Layout Road	2	8.00	0.23	0.30	1.10	
		2	7.80	0.23	0.50	1.79	
		2	7.80	0.23	0.50	1.79	
		2	7.00	0.23	0.50	1.61	
		2	7.10	0.23	0.50	1.63	
					Present Qty	**756.62**	**Cum**

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Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

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